Claims

1.-11. (cancelled)

- 12. (new) A ventilation device for ventilating boards mounted in a support unit, the ventilation device comprising:
- at least one fan unit connected to a power supply unit by connecting wires; and
- a control unit for monitoring the at least one fan unit, wherein the control unit controls a control element arranged in a power circuit of the connecting wires, wherein
- a temperature monitoring device is assigned to each board for through-connecting a switching device connected in parallel to the control element, if a board temperature is greater than a board limit temperature.
- 13. (new) The ventilation device according to Claim 12, wherein the switching device has switching elements arranged respectively on a board.
- 14. (new) The ventilation device according to Claim 13, wherein temperature monitoring devices assigned to the boards and switching elements are combined in each case to form a switching unit.
- 15. (new) The ventilation device according to Claim 14, wherein the switching units and the control unit are arranged in the support unit separately from one another.
- 16. (new) The ventilation device according to Claim 12, wherein the boards in the support unit are arranged in a pluggable manner in a backplane, and the parallel switching of the switching elements with the control element is established via a backplane line in common to the switching elements.
- 17. (new) The ventilation device according to Claim 13, wherein the boards in the support unit are arranged in a pluggable manner in a backplane, and the parallel switching of the switching elements

with the control element is established via a backplane line in common to the switching elements.

- 18. (new) The ventilation device according to Claim 14, wherein the boards in the support unit are arranged in a pluggable manner in a backplane, and the parallel switching of the switching elements with the control element is established via a backplane line in common to the switching elements.
- 19. (new) The ventilation device according to Claim 15, wherein the boards in the support unit are arranged in a pluggable manner in a backplane, and the parallel switching of the switching elements with the control element is established via a backplane line in common to the switching elements.
- 20. (new) The ventilation device according to Claim 13, wherein each switching element is configured as a semiconductor switching element.
- 21. (new) The ventilation device according to Claim 20, wherein the semiconductor switching element is a power MOSFET.
- 22. (new) The ventilation device according to Claim 12, wherein the fan unit has a brushless motor with integrated tachogenerator as a drive.
- 23. (new) The ventilation device according to Claim 13, wherein the fan unit has a brushless motor with integrated tachogenerator as a drive.
- 24. (new) The ventilation device according to Claim 12, wherein the temperature monitoring device comprises a sensor diode integrated in an integrated circuit of an electronic component of the respective board.
- 25. (new) The ventilation device according to Claim 24, wherein the sensor diode is for temperature recording.

- 26. (new) The ventilation device according to Claim 12, wherein four fan units are arranged in a support unit, and are monitored jointly by the control unit configured as an integrated controller module.
- 27. (new) The ventilation device according to Claim 12, wherein the control unit is connected to a control computer by a bus.
- 28. (new) The ventilation device according to Claim 27, wherein the bus is configured as a System Management Bus (SMB bus), Intelligent Platform Management Bus (IPMI bus) or I²C bus.
- 29. (new) A support unit for printed circuit board component groups comprising at least one ventilation device, the ventilation device comprising:
- at least one fan unit connected to a power supply unit by connecting wires; and
- a control unit for monitoring the at least one fan unit, wherein the control unit controls a control element arranged in a power circuit of the connecting wires, wherein
- a temperature monitoring device is assigned to each board for through-connecting a switching device connected in parallel to the control element, if a board temperature is greater than a board limit temperature.